This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1. (Currently Amended) Compounds of the formula I

$$R^1$$
 $N-N$
 S
 B
 R^2
 $N-N$
 R^3

in which

 R^1 and R^2 are each, independently of one another, H, OH, OR^8 , $-SR^8$, $-SO_2R^8$ or Hal,

R¹ and R² together are alternatively -OCH₂O- or -OCH₂CH₂O-,

 R^3 and R^3 are each, independently of one another, H, A"R⁷, COA"R⁷, COOA"R⁷, CONH₂, CONHA"R⁷, CON(A"R⁷)(A"R⁷), CONR¹⁰Het, NH₂, NHA"R⁷, N(A"R⁷)(A"R⁷), NCOA"R⁷ or NCOOA"R⁷,

V and W are oxygen or <u>two</u> hydrogen substituents, with the proviso that, if V is O, W is H,H, and vice versa.

 $B \quad \text{is an aromatic isocyclic or heterocyclic radical, which may be unsubstituted or} \\ monosubstituted, disubstituted or trisubstituted by R^4, R^5 and/or R^6,$

X is N or $CR^{3'}$,

 R^4 , R^5

and R^6 are each, independently of one another, H, A"R⁷, OH, OA"R⁷, NO₂, NH₂, NHA"R⁷, N(A"R⁷)(A""R⁷), NHCOA"R⁷, NHCOOA"R⁷, NHCONH₂, NHCONHA"R⁷, NHCON(A"R⁷)(A""R⁷), Hal, COOH, COOA"R⁷, CONH₂, CONHA"R⁷, CON(A"R⁷)(A""R⁷),

R⁷ is H, COOH, COOA, CONH₂, CONHA, CONAA', NH₂, NHA, NAA', NCOA, NCOOA, OH or OA,

R⁸ is A, cycloalkyl having 3-7 carbon atoms, alkylenecycloalkyl having 4-8 carbon atoms or alkenyl having 2-8 carbon atoms,

R⁹ is alkyl having 1-10 carbon atoms, cycloalkyl having 3-7 carbon atoms,

alkylenecycloalkyl having 4-8 carbon atoms or alkenyl having 2-8 carbon atoms,

in which one, two or three CH2 groups may be replaced by $O,\,S,\,SO,\,SO_2,$

NH, NMe, NEt and/or by -CH=CH- groups, and/or

1-7 H atoms may be replaced by F and/or Cl,

Y is alkylene having 1-10 carbon atoms or alkenylene having 2-8 carbon atoms, in which one, two or three CH₂ groups may be replaced by O, S, SO, SO₂, NH or NR⁹ and/or

1-7 H atoms may be replaced by F and/or Cl,

A and A' are each, independently of one another, alkyl having 1-10 carbon atoms or alkenyl having 2-8 carbon atoms,

in which one, two or three CH2 groups may be replaced by O,

S, SO, SO₂, NH or NR⁹ and/or

1-7 H atoms may be replaced by F and/or Cl,

or

aryl or Het,

A and A' together are alternatively an alkylene chain having 2-7 carbon

atoms, in which one, two or three CH₂ groups may be replaced by O, S, SO, SO₂, NH, NR⁹, NCOR⁹ or NCOOR⁹,

A" and A"

are each, independently of one another,

<u>a bondabsent</u>, alkylene having 1-10 carbon atoms, alkenylene having 2-8 carbon atoms or cycloalkylene having 3-7 carbon atoms,

in which one, two or three CH₂ groups may be replaced by O, S, SO, SO₂, NH or NR⁹ and/or

1-7 H atoms may be replaced by F and/or Cl,

A" and A"

together are alternatively an alkylene chain having 2-7 carbon atoms, in which one, two or three CH₂ groups may be replaced by O, S, SO, SO₂, NH, NR⁹, NCOR⁹ or NCOOR⁹,

aryl

is phenyl, naphthyl, fluorenyl or biphenyl, each of which is unsubstituted or monosubstituted, disubstituted or trisubstituted by Hal, R¹¹, OR¹⁰, N(R¹⁰)₂, NO₂, CN, COOR¹⁰, CON(R¹⁰)₂, NR¹⁰COR¹⁰, NR¹⁰CON(R¹⁰)₂, NR¹⁰SO₂A, COR¹⁰, SO₂N(R¹⁰)₂ or S(O)_mR¹¹,

 R^{10}

is H or alkyl having 1-6 carbon atoms,

 R^{11}

is alkyl having 1-6 carbon atoms,

Het

is a monocyclic or bicyclic saturated, unsaturated or aromatic heterocyclic ring having 1 or 2 N, O and/or S atoms, which may be unsubstituted or monosubstituted or disubstituted by carbonyl oxygen, Hal, R^{11} , OR^{10} , $N(R^{10})_2$, NO_2 , CN, $COOR^{10}$, $CON(R^{10})_2$, $NR^{10}COR^{10}$, $NR^{10}COR^{$

Hal

is F, Cl, Br or I,

m

is 0, 1 or 2,

and <u>a</u> pharmaceutically <u>acceptable salt or usable derivatives</u>, <u>solvates and stereoisomers</u> thereof, <u>or a mixture including mixtures</u> thereof in all ratios.

Claim 2. (Currently Amended) Compounds according to Claim 1, in which R¹ and R² are each, independently of one another, alkoxy having 1, 2, 3, 4, 5 or 6 carbon atoms,

and a pharmaceutically <u>acceptable salt or</u> <u>usable derivatives</u>, <u>solvates and stereoisomers</u> thereof, or a mixture <u>including mixtures</u> thereof in all ratios.

Claim 3. (Currently Amended) Compounds according to Claim 1, in which R¹ and R² are each, independently of one another, H, methoxy, ethoxy, benzyloxy, propoxy, isopropoxy, difluoromethoxy, F, Cl, cyclopentyloxy, cyclohexyloxy or cycloheptyloxy,

and <u>a</u> pharmaceutically <u>acceptable salt or</u> <u>usable derivatives</u>, <u>solvates and stereoisomers</u> thereof, <u>or a mixture including mixtures</u> thereof in all ratios.

Claim 4. (Currently Amended) Compounds according to Claim 1, in which R¹ and R² are each, independently of one another, methoxy, ethoxy, propoxy, isopropoxy, cyclopentyloxy or F,

and <u>a</u> pharmaceutically <u>acceptable salt or</u> <u>usable derivatives</u>, <u>solvates and stereoisomers</u> thereof, <u>or a mixture including mixtures</u> thereof in all ratios.

Claim 5. (Currently Amended) Compounds according to Claim 1, in which

R¹ 4-methoxy or 4-ethoxy,

R² is 3-methoxy, 3-ethoxy, 3-propoxy, 3-isopropoxy or 3-cyclopentyloxy,

and a pharmaceutically acceptable salt or usable derivatives, solvates and stereoisomers

thereof, or a mixture including mixtures thereof in all ratios.

Claim 6. (Currently Amended) Compounds according to Claim 1, in which R³ is H or A"R⁷, and a pharmaceutically acceptable salt or usable derivatives, solvates and stereoisomers thereof, or a mixture including mixtures thereof in all ratios.

Claim 7. (Currently Amended) Compounds according to Claim 1, in which X is N or CH,

and a pharmaceutically acceptable salt or usable derivatives, solvates and stereoisomers thereof, or a mixture including mixtures thereof in all ratios.

Claim 8. (Currently Amended) Compounds according to Claim 1, in which

B is an aromatic isocyclic or monocyclic saturated or unsaturated heterocyclic ring having 1 or 2 N, O and/or S atoms,

and <u>a</u> pharmaceutically <u>acceptable salt or</u> <u>usable derivatives</u>, <u>solvates and stereoisomers</u> thereof, or a mixture <u>including mixtures</u> thereof in all ratios.

Claim 9. (Currently Amended) Compounds according to Claim 1, in which B is phenyl, pyridyl, pyridyl N-oxide, thienyl, furyl, pyrrolyl, pyridazinyl, pyrimidinyl, pyrazinyl, triazinyl, isoxazolinyl, oxazolinyl, thiazolinyl, pyrazolinyl, imidazolinyl, naph-thyl, quinolinyl, isoquinolinyl, cinnolinyl, phthalazinyl, quinazolinyl or quinoxalinyl, each of which is unsubstituted or may be monosubstituted, disubstituted or trisubstituted by R⁴, R⁵ and/or R⁶,

and <u>a</u> pharmaceutically <u>acceptable salt or</u> <u>usable derivatives</u>, <u>solvates and stereoisomers</u> thereof, <u>or a mixture including mixtures</u> thereof in all ratios.

Claim 10. (Currently Amended) Compounds according to Claim 1, in which B is phenyl, pyridyl, pyridyl N-oxide, thienyl, furyl, pyrrolyl, pyridazinyl, pyrimidinyl, pyrazinyl, triazinyl, isoxazolinyl, oxazolinyl, thiazolinyl, pyrazolinyl, imidazolinyl, naphthyl, quinolinyl, isoquinolinyl, cinnolinyl, phthalazinyl, quinazolinyl or quinoxalinyl, each of which is unsubstituted or may be monosubstituted, disubstituted or trisubstituted by OH, OA, NO₂, NH₂, NAA',

and a pharmaceutically <u>acceptable salt or</u> <u>usable derivatives</u>, <u>solvates and stereoisomers</u> thereof, <u>or a mixture including mixtures</u> thereof in all ratios.

Claim 11. (Currently Amended) Compounds according to Claim 1, in which

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B is unsubstituted pyridyl, pyridyl N-oxide, thienyl or pyrazinyl, and a pharmaceutically acceptable salt or usable derivatives, solvates and stereoisomers thereof, or a mixture including mixtures thereof in all ratios.

Claim 12. (Currently Amended) Compounds according to Claim 1, R¹ and R² are each, independently of one another, alkoxy having 1, 2, 3, 4, 5 or 6 carbon atoms,

X is N or CH, R^3 is H or A" R^7 .

A" and A" are each, independently of one another, absent or alkylene having 110 carbon atoms, in which one CH₂ group may be replaced by NH or NR⁹,

A" and A" together are alternatively an alkylene chain having 2-7 carbon atoms, in which one CH₂ group may be replaced by NH or NR⁹.

B is phenyl, pyridyl, pyridyl N-oxide, thienyl, furyl, pyrrolyl, pyridazinyl, pyrimidinyl, pyrazinyl, triazinyl, isoxazolinyl, oxazolinyl, thiazolinyl, pyrazolinyl, imidazolinyl, naphthyl, quinolinyl, isoquinolinyl, cinnolinyl, phthalazinyl, quinazolinyl or quinoxalinyl, each of which is unsubstituted or may be monosubstituted, disubstituted or trisubstituted by OH, OA, NO₂, NH₂, NAA',

R⁷ is H, COOH, NHA or NAA',

R⁹ is alkyl having 1-6 carbon atoms,

A and A' are each, independently of one another, alkyl having 1-10 carbon atoms, in which 1-7 H atoms may be replaced by F and/or Cl,

and <u>a</u> pharmaceutically <u>acceptable salt or</u> <u>usable derivatives</u>, <u>solvates and stereoisomers</u> thereof, <u>or a mixture including mixtures</u> thereof in all ratios.

Claim 13. (**Currently Amended**) Compounds according to Claim 1, in which R¹ is 4-methoxy or 4-ethoxy,

R² is 3-methoxy, 3-ethoxy, 3-propoxy, 3-isopropoxy or 3-cyclopentyloxy,

X is N,

R³ is H or alkyl having 1-6 carbon atoms,

B is phenyl, pyridyl, pyridyl N-oxide, thienyl, furyl, pyrrolyl,

pyridazinyl, pyrimidinyl, pyrazinyl, triazinyl, isoxazolinyl, oxazolinyl, thiazolinyl, pyrazolinyl, imidazolinyl, naphthyl, quinolinyl, isoquinolinyl, cinnolinyl, phthalazinyl, quinazolinyl or quinoxalinyl, each of which is unsubstituted or may be monosubstituted, disubstituted or trisubstituted by OH, OA, NO₂, NH₂, NAA',

 R^7 is H,

R⁹ is alkyl having 1-6 carbon atoms,

A and A' are each, independently of one another, alkyl having 1-10 carbon atoms, in which 1-7 H atoms may be replaced by F and/or Cl,

and <u>a</u> pharmaceutically <u>acceptable salt or</u> <u>usable derivatives</u>, <u>solvates and stereoisomers</u> thereof, <u>or a mixture including mixtures</u> thereof in all ratios.

Claim 14. (Currently Amended) Compounds according to Claim 1, in which

R¹ is 4-methoxy or 4-ethoxy,

R² is 3-methoxy, 3-ethoxy, 3-propoxy, 3-isopropoxy or 3-cyclopentyloxy,

x is N,

R³ is H or alkyl having 1-6 carbon atoms,

V is H,H,

W is O,

B is unsubstituted pyridyl, pyridyl N-oxide, thienyl or pyrazinyl, and a pharmaceutically acceptable salt or usable derivatives, solvates and stereoisomers

thereof, or a mixture including mixtures thereof in all ratios.

Claim 15. (Currently Amended) Compounds according to Claim 1, in which

R¹ is 4-methoxy or 4-ethoxy,

R² is 3-methoxy, 3-ethoxy, 3-propoxy, 3-isopropoxy or 3-cyclopentyloxy,

X is N,

R³ is H or alkyl having 1-6 carbon atoms,

V is H,H,

W is O,

B is unsubstituted pyridyl, pyridyl N-oxide, thienyl or pyrazinyl or phenyl, which is unsubstituted or may be monosubstituted by OH, OA, NO₂, NH₂, NAA',

A and A' are each, independently of one another, alkyl having 1-10 carbon atoms, in which 1-7 H atoms may be replaced by F and/or Cl, and a pharmaceutically acceptable salt or usable derivatives, solvates and stereoisomers thereof, or a mixture including mixtures thereof in all ratios.

Claim 16. (Currently Amended) Compounds of the formula I according to Claim 1 from the group consisting of

a) 1-[3-(3-cyclopentyloxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin -5,6-dihydro-4H-pyridazin-1-yl]-1-[4-methyl-2-(1-oxypyridin-2-yl)thiazol-5-yl]methanone,

- b) 1-[3-(3-isopropoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-yl]-1-[4-methyl-2-(1-oxypyridin-2-yl)thiazol-5-yl]methanone,
- c) 1-[3-(3-ethoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6 dihydro 4H-pyridazin-1-yl]-1-[4-methyl-2-(1-oxypyridin-2-yl)thiazol-5-yl]methanone,
- d) 1-[3-(3-ethoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6 dihydro 4H-pyridazin-1-yl]-1-(4-methyl-2-pyridin-3-ylthiazol-5-yl)methanone,
- e) 1-[3-(3-isopropoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-(4-methyl-2-pyridin-3-ylthiazol-5-yl)methanone,
- f) 1-[3-(3-cyclopentyloxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-yl]-1-(4-methyl-2-pyridin-3-ylthiazol-5-yl)methanone,
- g) 1-[3-(3-ethoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6 dihydro 4H-pyridazin-1-yl]-1-(4-methyl-2-pyridin-2-ylthiazol-5-yl)methanone,
- h) 1-[3-(3-isopropoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-yl]-1-(4-methyl-2-pyridin-2-ylthiazol-5-yl)methanone,
- i) 1-[3-(3-cyclopentyloxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-yl]-1-(4-methyl-2-pyridin-2-ylthiazol-5-yl)methanone,
- j) 1-[3-(3-ethoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6 dihydro 4H-pyridazin-1-(4-methyl-2-pyrazin-2-ylthiazol-5-yl)methanone,
- k) 1-[3-(3-isopropoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-yl]-1-(4-methyl-2-pyrazin-2-ylthiazol-5-yl)methanone,
- 1) 1-[3-(3-cyclopentyloxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-yl]-1-(4-methyl-2-pyrazin-2-ylthiazol-5-yl)methanone,
- m) 1-[3-(3-ethoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6 dihydro-4H-pyridazin-1-yl]-1-(4-methyl-2-thiophen-2-ylthiazol-5-yl)methanone,
- n) 1-[3-(3-isopropoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-yl]-1-(4-methyl-2-thiophen-2-ylthiazol-5-yl)methanone,
- o) 1-[3-(3-cyclopentyloxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-yl]-1-(4-methyl-2-thiophen-2-ylthiazol-5-yl)methanone,
- p) 1-[3-(3-ethoxy-4-methoxyphenyl)<u>-3,4,5,6-tetrahydropyridazin</u>-5,6 dihydro 4H-pyridazin-1-yl]-1-[4-methyl-2-phenylthiazol-5-yl]methanone,
- q) 1-[3-(3-ethoxy-4-methoxyphenyl)<u>-3,4,5,6-tetrahydropyridazin-5,6 dihydro 4H-pyridazin-</u>1-yl]-1-[4-methyl-2-(4-methoxyphenyl)thiazol-5-yl]methanone,
- r) 1-[3-(3-ethoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-

pyridazin-1-yl]-1-[4-methyl-2-(4-aminophenyl)thiazol-5-yl]methanone,

- s) 2-[(4-{5-[3-(3-ethoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-carbonyl]-4-methylthiazol-2-yl}phenyl)hydrazono]malononitrile,
- t) 2-[(4-{5-[3-(3-ethoxy-4-methoxyphenyl)-3,4,5,6-tetrahydropyridazin-5,6-dihydro-4H-pyridazin-1-carbonyl]-4-methylthiazol-2-yl}phenyl)hydrazono]-2-(1*H*-tetrazol-5-yl)-acetonitrile,

and <u>a</u> pharmaceutically <u>acceptable salt or</u> <u>usable derivatives</u>, <u>solvates and</u> stereoisomers thereof, <u>or a mixture</u> <u>including mixtures</u> thereof in all ratios.

Claim 17. (**Previously Presented**) Compounds of the formula I according to Claim 1 as phosphodiesterase IV inhibitors.

Claim 18. (Currently Amended) Process for the preparation of compounds of the formula I or and salts and solvates thereof, comprising characterised in that

a) for the preparation of opf a compound of the formula I in which V is H,H and W is O, reacting a compound of the formula II

$$R^1$$
 $N-N$
 R^2
 $N-N$
 H

in which

R¹ and R² are as defined in Claim 1,

is reacted with a compound of the formula III

$$\begin{array}{c|c}
 & B \\
 & X \\
 & B \\$$

in which

L is Cl, Br, I or a free or reactively functionally modified OH group, and R³, X and B are as defined in Claim 1, with the proviso that any further OH and/or amino group present is protected, and subsequently, if desired, a protecting group is removed,

and/or

- b) <u>converting</u> one or more radicals R^1 , R^2 , R^3 and/or B in a compound of the formula I are converted into one or more other radicals R^1 , R^2 , R^3 and/or B by
 - i) cleaving an ether or ester,
 - ii) alkylating or acylating an OH function,
 - iii) reductively alkylating an amino group,
 - iv) reacting an amino group with malononitrile, or
 - v) converting a cyano group into a tetrazole group,

and/or

c) converting and/or in that a basic compound of the formula I is converted into one of its salts by treatment with an acid.

Claim 19. (Currently Amended) Medicament comprising at least one compound of the formula I according to Claim 1 and/or pharmaceutically usable <u>salt or derivatives</u>, solvates and stereoisomers thereof, including mixtures thereof in all ratios, and, <u>optionally</u>, <u>if desired</u>, excipients and/or adjuvants.

Claim 20. (Canceled)

Claim 21. (Currently Amended) A method <u>for treating a disease, comprising</u> administering to a host in need thereof, an effective amount of a compound according to <u>Claim 1</u>, according to <u>Claim 20</u> wherein the disease or complaint is: allergic diseases, asthma, chronic bronchitis, atopic dermatitis, psoriasis <u>or and</u> other skin diseases, inflammatory diseases, autoimmune diseases, <u>such as, for example, rheumatoid arthritis, multiple sclerosis, Crohn's disease, diabetes mellitus or ulcerative colitis, osteoporosis,</u>

transplant rejection reactions, cachexia, tumour growth or tumour metastasis, sepsis, memory disorders, atherosclerosis, AIDS or myocardial disease. and AIDS.

Claim 22. (Canceled)

Claim 23. (Canceled)

Claim 24. (**Currently Amended**) A method according to <u>Claim 21</u> <u>Claim 20</u> wherein the disease is a myocardial diseases.

Claim 25. (**Previously Presented**) A method according to Claim 24 wherein the myocardial disease has inflammatory and immunological properties.

Claim 26. (Currently Amended) A method for treating a disease, comprising administering to a host in need thereof, an effective amount of compound according to Claim 1, Claim 20-wherein the disease or complaint is: coronary heart disease, reversible or irreversible myocardial ischaemia/reperfusion damage, acute or chronic heart failure or and-restenosis [[-7]] including in-stent restenosis and stent-in-stent restenosis.

Claim 27. (Canceled)

Claim 28. (Canceled)

Claim 29. (Canceled)

Claim 30. (New) A method for treating a disease, comprising administering to a host in need thereof, an effective amount of a compound according to Claim 1, wherein the disease is allergic diseases, asthma, chronic bronchitis, atopic dermatitis, psoriasis, rheumatoid arthritis, multiple sclerosis, Crohn's disease, diabetes mellitus, ulcerative colitis, osteoporosis, transplant rejection reactions, cachexia or atherosclerosis.